



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/US99/29369</p> <p>(22) International Filing Date: 10 December 1999 (10.12.99)</p> <p>(30) Priority Data: 09/211,183 14 December 1998 (14.12.98) US</p> <p>(71) Applicant: AMERICAN HOME PRODUCTS CORPORATION [US/US]; Five Giralda Farms, Madison, NJ 07940-0874 (US).</p> <p>(72) Inventors: LOMBARDO, Louis, John; 412 South Woods Road, Belle Mead, NJ 08502 (US). SABALSKI, Joan, E.; 38 Elton Avenue, Hamilton, NJ 08620 (US).</p> <p>(74) Agents: BARRETT, Rebecca, R.; American Home Products Corporation, Patent Law Department - 2B, One Campus Drive, Parsippany, NJ 07054 (US) et al.</p>		<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> <i>With international search report.</i></p>
<p>(54) Title: 3,4-DIAMINO-3-CYCLOBUTENE-1,2-DIONE DERIVATIVES WHICH INHIBIT LEUKOCYTE ADHESION MEDIATED BY VLA-4</p> <div style="text-align: center; margin: 20px 0;"> <p style="text-align: right;">(I)</p> </div> <p>(57) Abstract</p> <p>Compounds of formula (I) which inhibit leukocyte adhesion mediated by interaction of the <math>\alpha_4\beta_1</math> integrin (VLA-4) with its counterreceptor VCAM-1, and their use for the treatment of inflammatory and autoimmune diseases.</p>		

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